

**KANSAS CORPORATION COMMISSION  
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2  
(Rev. 8/98)

TYPE TEST:

- Open Flow  
 Deliverability

TEST DATE: 4-15-10

API No. 15-007-22811-00-00

Company CHIEFTIAN OIL COMPANY, INC.		Lease TOM			Well Number #1	
County BARBER	Location SE SW NE	Section 33	TWP 32S	RNG (E/W) 10W	Acres Attributed	
Field McGUIRE-GOEMAN	Reservoir MISSISSIPPI	Gas Gathering Connection LUMEN ENERGY				
Completion Date 4-29-04	Plug Back Total Depth 4822	Packer Set at NONE				
Casing Size 5.500	Weight 15.500	Internal Diameter 4.052	Set at 4898	Perforations 4496	To 4506	
Tubing Size 2.875	Weight 6.500	Internal Diameter 2.441	Set at 4560	Perforations 4560	To 4560	
Type Completion (Describe) SINGLE	Type Fluid Production GAS, OIL, WATER	Pump Unit or Traveling Plunger? PUMPING				
Producing Thru (Annulus/Tubing) ANNULUS	% Carbon Dioxide .130	% Nitrogen 1.142	Gas Gravity- Gg .665			
Vertical Depth (H) 4501	Pressure Taps FLANGE	Meter Run Size 2"				
Pressure Buildup: Shut in	4-12-10 10:00 A.M.	TAKEN	4-15-10 10:00 A.M.			
Well on Line: Started	4-15-10 10:00 A.M.	TAKEN	4-12-10 10:00 A.M.			

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						600	614			72.0	
Flow	1.000	105.0	2.50	60	60	110	124			24.0	Oil 16000

#20  
120  
BBL.

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>b</sub> ) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G <sub>m</sub>
5.073	119.0	17.25	1.2263	1.0000	1.0114	108	108,000/1	.665

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

$(P_c)^2 = 377.0$        $(P_w)^2 = 15.5$        $P_d =$        $(P_c - 14.4) + 14.4 =$        $\frac{(P_a)^2}{(P_d)^2} = 0.207$

$(P_c)^2 - (P_a)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
376.80	361.51	1.042	.0180	.693	.0125	1.029	111

OPEN FLOW

111

Mcf/d @ 14.65 psia

DELIVERABILITY

Mcf/d @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 16th day of April, 2010

Amanda Cox  
Witness (if any)

RECEIVED

MAR 07 2011

[Signature]  
For Company  
[Signature]  
Checked by

For Commission

KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator CHIEFTAIN OIL CO., INC.

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

I hereby request a one-year exemption from open flow testing for the TOM #1 gas well on the grounds that said well:

(Check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. \_\_\_\_\_
- is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 4-21-10

Signature: \_\_\_\_\_

Title: PRESIDENT

**Instructions:**

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

**Chieftain Oil Co., Inc.**

P.O. Box 124  
Kiowa, KS 67070  
(620) 825-4030  
[kristimolz@gmail.com](mailto:kristimolz@gmail.com)

March 4, 2011

Kansas Corporation Commission  
Conservation Division

Attn: ~~Jim Hemmen~~  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802

RE: FORM G-2 (Tom Lease 33-32S-10W)

Dear: Mr. Hemmen:

After reviewing the form referenced above, Chieftain Oil Co., Inc. noticed that the casing pressure was written incorrectly on the form. Attached is a corrected form containing the correct casing pressure. If you have any questions regarding the correction please call 620-825-4030.

Sincerely,



Amanda Corr  
Chieftain Oil Co., Inc.

BY THE KANSAS CORPORATION COMMISSION  
I HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL AS FILED IN THE OFFICE OF THE SECRETARY OF THE KANSAS CORPORATION COMMISSION  
ON 03/07/2011 AT 10:00 AM IN WICHITA, KANSAS  
KCC WICHITA

RECEIVED  
MAR 07 2011  
KCC WICHITA